Product data sheet
Characteristics

C12E4TM160B
Circuit breaker, ComPacT NSXm 160E, 16kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 160A, lugs/busbars



Main

Range	ComPacT
Product name	ComPacT NSXm
Device short name	NSXm 160E
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4D
Neutral position	Left
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	440 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Breaking capacity	25 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	E 16 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	25 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	20000 Cycles
Electrical durability	20000 Cycles at 440 V In/2 10000 Cycles at 440 V In
Power dissipation per pole	13.7 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back

Upside connection	Front
Downside connection	Front
Connections - terminals	Compression lug/busbar
Connection pitch	35 Mm with spreaders 27 Mm without spreaders
9 mm pitches	12 module
Trip unit rating	160 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
Neutral protection setting	1 x Ir (4D)
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	1250 A
Earth-leakage protection	Without
Number of slots	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Local signalling	Flag (green) for presence of auxiliary contacts
Width	108 Mm
Height	137 Mm
Depth	80 Mm
Net weight	1.42 Kg
Colour	Grey (RAL 7016)

Environment

Standards	EN/IEC 60947-2
Overvoltage category	III
Electrical shock protection class	Class II on front face
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-50…85 °C
Relative humidity	0…95 %
Operating altitude	2000 m without derating 5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 Cm
Package 1 Width	12.000 Cm
Package 1 Length	22.000 Cm
Package 1 Weight	1.462 Kg
Unit Type of Package 2	P12
Number of Units in Package 2	144
Package 2 Height	150.000 Cm
Package 2 Width	80.000 Cm
Package 2 Length	120.000 Cm
Package 2 Weight	254.490 Kg

Offer Sustainability

Recyclability potential, in %	57
Total lifecycle Carbon footprint	210 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	8.806913433
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.233859386
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.176264345
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	197.28
Carbon footprint of the use phase [B2, B3, B4, B6]	197 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	3.659606633
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	210
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	4b89979a-b2b4-46f7-b291-ed2599c8d205
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised